

Title (en)
DUST COLLECTING DEVICE AND ELECTRIC TOOL

Title (de)
STAUBSAMMELVORRICHTUNG UND ELEKTRISCHES WERKZEUG

Title (fr)
DISPOSITIF DE COLLECTE DE POUSSIÈRE ET OUTIL ÉLECTRIQUE

Publication
EP 3569365 A4 20200729 (EN)

Application
EP 18777842 A 20180329

Priority

- CN 201710217774 A 20170401
- CN 201710984266 A 20171020
- CN 201721371202 U 20171020
- CN 201710983764 A 20171020
- CN 2018081040 W 20180329

Abstract (en)
[origin: EP3569365A1] Disclosed is a dust collection device and a power tool. The dust collection device includes a housing, an air inlet pipe, a cyclone pipe, an air duct pipe, and a ventilation pipe. The housing defines an accommodating chamber for collecting a dust. The air inlet pipe is configured to guide an airflow to enter the dust collection device along a first straight line. The cyclone pipe extends along the second straight line. The cyclone pipe has a first end for air intake and a second end for dust discharge along the second straight line. The air duct pipe is provided with an air duct communicating the air inlet pipe with the cyclone pipe. The ventilation pipe is arranged at the first end of the cyclone pipe and communicated with the cyclone pipe, and is configured to guide the airflow after being subjected to dust separation performed by the cyclone pipe out of the housing. The housing further defines an air outlet communicated with the ventilation pipe or through which the ventilation pipe extends out of the housing. The second straight line along which the cyclone pipe extends intersects the first straight line to form an angle greater than or equal to 25° and less than or equal to 90°. The dust collecting device has a high dust collecting efficiency and superior dust separation effect.

IPC 8 full level
B25F 5/00 (2006.01); **B23Q 11/00** (2006.01); **B24B 55/10** (2006.01); **B25D 17/14** (2006.01)

CPC (source: CN EP US)
B23Q 11/0046 (2013.01 - EP); **B23Q 11/0071** (2013.01 - CN EP); **B24B 23/00** (2013.01 - CN); **B24B 23/005** (2013.01 - US); **B24B 23/028** (2013.01 - US); **B24B 55/10** (2013.01 - CN EP); **B24B 55/102** (2013.01 - US); **B25F 5/00** (2013.01 - CN); **B25F 5/02** (2013.01 - EP)

Citation (search report)

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- [X] EP 1625908 A1 20060215 - MAKITA CORP [JP]
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- [X] EP 1679156 A1 20060712 - POSITEC GROUP LTD [HK]
- See also references of WO 2018177355A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3569365 A1 20191120; EP 3569365 A4 20200729; EP 3569365 B1 20240619; CN 108655958 A 20181016; CN 108655958 B 20240426; CN 108656033 A 20181016; CN 108656033 B 20240430; CN 207344515 U 20180511; CN 207509034 U 20180619; CN 207509161 U 20180619; CN 207509162 U 20180619; US 2019351528 A1 20191121

DOCDB simple family (application)
EP 18777842 A 20180329; CN 201710983764 A 20171020; CN 201710984266 A 20171020; CN 201721361546 U 20171020; CN 201721361839 U 20171020; CN 201721371202 U 20171020; CN 201721374343 U 20171020; US 201916527818 A 20190731